

DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-003567**Date Inspected:** 27-Jun-2011**Project Name:** SAS Superstructure**OSM Arrival Time:** 1900**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 700**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Changxing Dao, Shanghai**Quality Control Contact:** Don Walton**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** Sub-Assemblies (OBG)**Bid Item:** 77,78,79**Lot No:****Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. Kenneth W. Cason Jr. arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections is to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Sub-Assemblies (OBG)

L13E Internal East Section Floor and Vertical Floor Beam from PP119+1.5 to PP120, NOI Number 7133: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on L13E Internal East Section Floor and Vertical Floor Beam from PP119+1.5 to PP120. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required blasting.

L13E Internal East Section Floor and Vertical Floor Beam from PP120 to PP120.5, NOI Number 7133: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on L13E Internal East Section Floor and Vertical Floor Beam from PP120 to PP120.5. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required blasting.

L13E Internal East Section Floor and Vertical Floor Beam from PP119+1.5 to PP120, NOI Number 7134: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF

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and ZPMC Quality Assurance/Control representatives observed the surface preparation on L13E Internal East Section Floor and Vertical Floor Beam from PP119+1.5 to PP120. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required blasting.

L13W Internal East Section Floor and Vertical of Floor Beam from PP124 to End Weld Seam, NOI Number 7135:

In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on L13W Internal East Section Floor and Vertical of Floor Beam from PP124 to End Weld Seam. Test results recorded x1 soluble salts recorded reading of 31.7 ($\mu\text{s/cm}$). ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required blasting.

L13E Internal East Section Floor and Vertical Floor Beam from PP121.5 to PP123, NOI Number 7136: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on L13E Internal East Section Floor and Vertical Floor Beam from PP121.5 to PP123. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required blasting.

L13W Internal East Section Floor and Vertical of Floor Beam from PP124 to End Weld Seam, NOI Number 7137:

In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on L13W Internal East Section Floor and Vertical of Floor Beam from PP124 to End Weld Seam. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required blasting.

L13W Internal East Section Floor and Vertical of Floor Beam from PP124 to End Weld Seam, NOI Number 7139:

In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on L13W Internal East Section Floor and Vertical of Floor Beam from PP124 to End Weld Seam. Test results recorded x4 surface profile readings of 91 to 110 μm . ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required blasting and profile readings high out of specification range.

L14E Internal West Section Floor and Vertical of Floor Beam from PP125 to OBG End, NOI Number 7140: In

preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on L14E Internal West Section Floor and Vertical of Floor Beam from PP125 to OBG End. Test results recorded x5 surface profile readings of 75 to 85 μm and x5 soluble salts recorded readings in the range of 20.4 and 29.1 ($\mu\text{s/cm}$). ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required blasting.

L14E Internal West Section Floor and Vertical of Floor Beam from PP125 to OBG End, NOI Number 7141: In

preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on L14E Internal West Section Floor and Vertical of Floor Beam from PP125 to OBG End. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required blasting.

L13E Internal West Section Floor and Vertical of Floor Beam from PP121.5 to PP122.5, NOI Number 7142: In

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preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on L13E Internal West Section Floor and Vertical of Floor Beam from PP121.5 to PP122.5. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required blasting.

L13E Internal West Section Ceiling and Vertical of Floor Beam from PP119+1.5M to PP120, NOI Number 7142: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on L13E Internal West Section Ceiling and Vertical of Floor Beam from PP119+1.5M to PP120. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required blasting.

L13E Internal East Section Vertical of Floor Beam from PP119+1.5M to PP120, NOI Number 7143: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on L13E Internal East Section Vertical of Floor Beam from PP119+1.5M to PP120. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required blasting.

L13E Internal East Section Ceiling and Vertical of Floor Beam from PP120 to PP120.5, NOI Number 7143: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on L13E Internal East Section Ceiling and Vertical of Floor Beam from PP120 to PP120.5. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required blasting.

L13E Internal East Section Vertical of Floor Beam from PP119+1.5M to PP120, NOI Number 7145: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on L13E Internal East Section Vertical of Floor Beam from PP119+1.5M to PP120. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required blasting.

L13E Internal East Section Ceiling and Vertical of Floor Beam from PP120 to PP120.5, NOI Number 7145: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on L13E Internal East Section Ceiling and Vertical of Floor Beam from PP120 to PP120.5. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required blasting.

L13E Internal East Section Floor and Vertical of Floor Beam from PP121 to PP122.5, NOI Number 7146: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on L13E Internal East Section Floor and Vertical of Floor Beam from PP121 to PP122.5. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required blasting.

L13E Internal West Section Vertical of Floor Beam from PP119+1.5M to PP120, NOI Number 7146: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on L13E Internal West

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Section Vertical of Floor Beam from PP119+1.5M to PP120. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to additional required blasting.

L14E Internal West Section Floor and Vertical of Floor Beam from PP125 to OBG End, NOI Number 7147: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on L14E Internal West Section Floor and Vertical of Floor Beam from PP125 to OBG End. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to obscured visual of substrate (grit on surface).

L14E Internal West Section Floor and Vertical of Floor Beam from PP125 to OBG End, NOI Number 7148: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on L14E Internal West Section Floor and Vertical of Floor Beam from PP125 to OBG End. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to obscured visual of substrate (grit on surface).

Office

This Quality Assurance Inspector (QA) reviewed, recorded and entered data from notice of inspection requests for the purpose of tracking and compliance to contract documents.

Note: Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

Summary of Conversations:

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact , who represents the Office of Structural Materials for your project.

Inspected By:	Cason,Kenneth
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Quality Assurance Inspector

Reviewed By:	Miller,Mark
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QA Reviewer
